MANUYLOVA, N.S., kand. khim. nauk; VARSHAL, B.G., kand. tekhm. nauk; MAYYER, A.A., kand. tekhm. nauk

Investigation of the texture and some physico-chemical properties of perlite. Sbor. trud. ROSNIIMS no.25:32-45 \*62 (MIRA 17:8)

MANUYLOVA, N.S., kend. khimich, neuk; STOLOVITSKAYA, M.M., inzh.; VEBER, S.I., inzh.

Effect of the structure and texture of perlitic rock on its expansibility. Shor. trud. RUSNIIMS no.25:46-53 '62 (MIRA 17:8)

POLINKOVSKAYA, A.I., kend. tekhm. nauk; MANUYLOVA, N.S., kand. khim. nauk; SERGEYEV, N.I., inzh.

Service life of the linings of rotary kilns for expanded perlite. Sbor. trud. ROSNITMS no.25:105-119 '62 (MIRA 17:8)

ACCESSION NR: AR4036317

8/0081/64/000/004/B092/B093

SOURCE: Referativny\*y zhurnal. Khimiya, Abs. 4B671

AUTHOR: Mayer, A. A.; Varshal, B. G.; Manuylova, N. S.; Varlamov, V. P.

TITLE: Dehydration of certain zeolites in a vacuum and their rehydration under hydrothermal conditions

CITED SOURCE: Sb. tr. Resp. n.-i. in-t mestn. stroit, materialov, no. 27, 1963, 3-23

TOPIC TAGS: zeolite, dehydration, rehydration, natrolite, analcine, desmin

TRANSLATION: Baking of natural natrolite (Nt) in a vacuum at 200C does not change its properties, but at 400C complete dehydration occurs. Previously dehydrated Nt treated with steam at 20-250C changes into p-natrolite(PNt). PNt has the same chemical composition and crystalline form as the native Nt, but differs in that the water in it is primarily absorbed water and not water of crystallization as in the natural form. Therefore, PNt has twice the dielectric permeability. Saturation with water vapor at 20-250C does not change the properties of natural Nt and

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ACCESSION NR: AR4036317

PNt. During treatment of vapor saturated PNt at 300C, it changes completely into analcime and sodium hydroaluminate. Natural Nt under the same conditions changes only slightly. Apparently, the presence of water of crystallization makes the substance resistant to the effects of strongly heated steam. Therefore, one should look into this phenomenon as a reason for the complete stability of analcime in an atmosphere of steam at 300C. In other words, the resistance of the mineral to the effects of strongly heated steam is determined by the physical type of water present in it. The presence of water of crystallization in the lattice of Nt provides its crystals with mechanical resistance. After baking in a vacuum at 200C, desmin (Dm) fully retains the ability to be rehydrated. Due to its tridimensional structure, the crystal lattice of Nt does not change during dehydration in a vacuum, which permits the water during rehydration to return in the same quantity. On the other hand, the two dimensional stratified lattice of Dm is destroyed during heating in a vacuum at 400C, and because of that Dm loses the ability to be rehydrated to a considerable extent. During rehydration of dehydrated

Card 2/3

ACCESSION NR: AR4036317

Nt and Dm, the water which returns is mainly adsorptive in character. Experiments have shown that in acidic volcanic, water-containing glass, the water is also adsorptive in character. This permits us to make an analogy between perlites and zeolites, many of which similarly swell up when heated. Authors' summary.

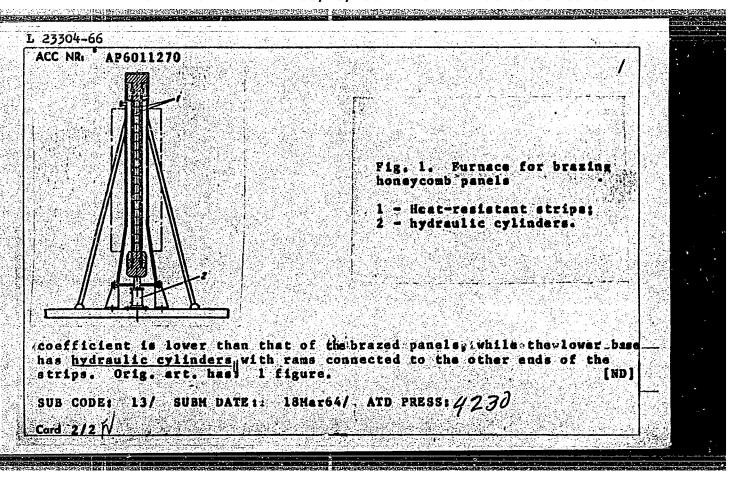
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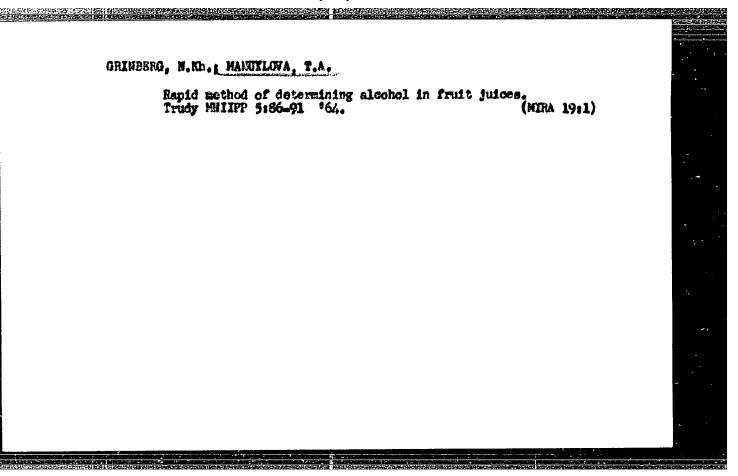
SUB CODE: IC

BRCL: 00

Card 3/3

	JD/RW/EK/DJ P6011270 SOUR	CE CODE: UR/0413/66	(지: 1987년 - 이렇게 되었다. 1984년 이 그는 나는 그런 그는 아이를 보고 있다. 그는 사람들이 되었다.	
INVENTOR:	Shlykov, V, P.; Ha	nuylova, O. H.	37 37	
ORC: no	n <b>o</b>		B	
	Izobreteniya, promys	oneycomb panele. C1 72 hlennyye obraztey, t	tass 49, No. 180073 tovarnyye znaki, no. 6,	
		mb panel, honeycomb	panel brazing, brazing	
ABSTRACT: honeycomb an upper and a set prevent d	panels (see Fig. 1) and lower base, a bo of quartz lamps. T istortion of the pan	ttom plate on which o provide for adequa els, the upper base	shielding gas chamber, the panels are placed, ite clamping and to	
ABSTRACT: honeycomb an upper and a set prevent d	panels (see Fig. 1) and lower base, a bo of quartz lamps. T istortion of the pan	. It consists of a trom plate on which o provide for adequaels, the upper base	shielding gas chamber, the panels are placed, ate clamping and to of the unit is	





MANUYLOVA, T. D.

Manuylova, T. D. and Shakhurina, Ye. A. "the survival of worm eggs after composting of wastes", Shornik rabot po gel'mintologii (Vseso yuz. in-t gel'mintologii im; akad. Skryabina), Moscow, 1948, p. 237-44.

SO: U-3042, 11 March 53, (Letopis 'zhurnal 'nykh Statey, No. 10, 1949).

S/737/61/000/000/010/010

AUTHORS: Braun, M.P., Doctor of Technical Sciences, Professor,

Vinokur, B.B., Matyushenko, N.I., Manuylova, V.P., Engineers.

The effect of plastic deformation on the structure of heat-resisting steel TITLE:

SOURCE:

ЭИ 726 (EI 726).

Stal!, sbornik statey. Ed. by A. M. Yampol'skiy. Moscow. 1961, 478-489. An investigation was made of the heat-resisting steel 31/726 (EI 726) with the following % composition (B and Ce calculated): C 0.12, Mn 1.58, Si 0.59, Ni 16.97, Cr 15.09, W 2.00, Nb 1.31, S 0.018, P 0.018, B 0.025, Ge 0.02%. In austenitic steels heating and cooling does not produce any polymorphic transformations, and plastic deformation is one of the principal factors in controlling the grain size. Inasmuch as in actual production different portions of an ingot undergo deformation at different temperatures, it is advisable to investigate the plasticity of the metal at various descending temperatures. Tests were made by the upsetting method. The specimens were initially 30 mm dia and 60 mm high. The specimens were insulated with aspestos sheathing to minimize radiative losses during thermal upsetting. Upsetting of specimens heated to 1170°C was done step by step to 15, 30, 45, 60, and 75%; this was followed by water cooling. The furnace temperature was then reduced step by step to 1100, 1000, 900, and 800°, and in each instance a batch of the specimens remaining in the furnace was subjected to upsetting, except for one control specimen which was water-cooled without any impact test. Microscopic in-Card 1/3

The effect of plastic deformation...

5/737/61/000/000/010/010

spection before and after aqua-regia etching reveals a growing coarseness consisting of a network of mutually intersecting 450 shear lines, accompanied by the formation of external "orange peel." Such coarseness attains a maximum at 45% deformation; at 60% deformation fissures begin to form (photographs are shown). At lower temperatures (900°) coarseness increases for a given % deformation, and fissures appear at 45%. At 800°, heavy coarseness appears at 30% deformation. The test specimens were axially sectioned, the section slices were etched electrolytically for 20 sec in concentrated HNO3 at 0.3 a/cm2 and were examined under the microscope. The impaired diffusion in the highly alloyed sceel and the rapid deformation and subsequent water cooling slow down the recrystallization process; hence, the specimens evince a dendritic structure; the dendritic structure is increasingly distorted with increasing % deformation. The distribution of the nonuniform deformation was determined atereoscopically by Saltykov's method (no reference). Thus, in specimens having undergone a total deformation of 45%, the deformation in the surface layers of the facial plane was only 30%, at 1/6 of the height 45%, and at the midpoint 66%. The dendrites near the faces, which are constrained by the friction with the impact tool, are deformed but little; at the midpoint the deformation (at temperatures up to 1170°) may be so complete that the structure becomes unidentifiable, except for a highly directional texture (photograph shown). At higher temperatures the dendrites are deformed considerably less; hence, the upsetting operation should not be terminated at high temperatures; on the other hand, the deformation Card 2/3

The effect of plastic deformation...

\$/737/61/000/000/010/010

should not be completed at lower temperatures, where the plasticity of the metal is reduced and the relaxation processes are so impaired that any subsequent heating may result in a collective recrystallization. A most uniform structure with grain sizes of between 4 and  $8 \cdot 10^{-3} \mu^2$  without disruption of the continuity of the metal are obtained by upsetting deformations of 30-45% at temperatures of 900-1000°C (photographs shown). Three-dimensional diagrams of grain size versus % deformation and temperature are shown. The effect of subsequent heating on the recrystallization of deformed specimens was investigated by holding them for 5 hours at 1080° and then water-quenching them. Electrolytic etching revealed new, smaller, polycrystalline grains and strong disintegration of the old, larger, dendritic grains. 15% deformation at 1170° may permit some growth of the grain; greater deformation at less than 1000° crushes the grain effectively. Heating after deformation evens out the grain size and eliminates any texture; however, the sectional size of the grains still depends on the size of the deformed dendrites. It is found and recommended that EI726 steel should be deformed by upsetting to an extent not to exceed 40% at temperatures not below 900°. There are 7 figures and 5 references (all Russianlanguage, of which 2 are Soviet and 3 appear to be Russian translations of Western books).

ASSOCIATION: Institut liteynogo proizvodstva AN USSR, Ukrainskaya akademiya s.-kh.nauk. Novokramatorskiy mashinostroitel nyy zavod (Institute of Foundry Production AS UkrSSR, Ukrainian Academy of Agricultural Sciences, New Kramatorsk Machine-Building Factory).

Card 3/3

MATYUSHENKO, N.I.; MANUYLOVA, V.P.; VINOKUR, B.B.; ERAUN, M.P.

Recrystallization of ET726 cast heat-resistant steel. Struk.i
svois.lit.splav. no.1:425-128 162. (MERA 15.5)
(Steel castings) (Crystallization)

ERAUN, M.P., doktor tekhn.nauk; VINCKUR, B.B., inzh.; MATYUSHENKO, N.I., inzh.; MANUYLOVA, V.P., inzh.

Efficient conditions for shaping and heat treatment of heatresistant austenite steel. Mashinostroenie no.4:32-36 Jl-Ag '62. (MIRA 15:9)

1. Institut liteynogo proizvodstva AN UkrSSR. (Steel-Heat treatment)

## S/129/63/000/003/006/009 E193/E383

AUTHORS:

Astaf'yev, A.A., Abramova, V.P., Kondrashev, A.I.,

and Manuylova, V.P.

TITLE:

Combined forging and hardening of large parts

PERIODICAL:

Metallovedeniye i termicheskaya obrabotka metallov,

no. 3, 1963, 24 - 28

TEXT: The object of the present investigation, conducted by TsNIITMASh in cooperation with the Novo-Kramatorskiy mashino-stroitel'nyy zavod (Novo-Kramatorsk Machine-building Works), was to explore the possibility of hardening large forgings of carbon and low-alloy steels by quenching directly after the hot-forging operation. The experiments were conducted on stepped forgings, 300 and 500 mm in diameter, made from basic open-hearth steel 45 and basic steel 40XH (40KhN), smelted in an electric furnace. The blanks were preheated to 1 200 °C. The forging operation lasted 22 - 48 min, the reduction given being 5 and 1.9 for steps of 300 and 500 m in diameter, respectively. The following three variants of hardening treatment were studied: 1 - quenching immediately after the forging operation; 2 - quenching after holding the Card 1/5

S/129/63/000/003/006/009 E193/E383

Combined forging ....

forging at 850 °C for 4 hours (steel 45) or 1.5 h (steel 40KhN); 3 - quenching after forging, tempering, reheating and quenching again. Steel 45 forgings were water-quenched (cooling time - 15-20 min); steel 40KhN test pieces were oil-quenched (cooling time 63 - 76 min) and transferred to a tempering furnace when their surface temperature reached 200 °C. Both steels were tempered at 640-660 °C for 20 and 45 hours; experiments were also conducted on steel 40KhN, tempered at 550-570 °C for 25 hours. After tempering the forgings were cooled to 400 °C at a cooling rate of 40 °C/h and then to room temperature at 30 °C/h; the specimens tempered for 45 h were cooled in air. After the heat treatment test pieces were cut from the surface layer, from the region R/3 distant from the surface and from the central region of the forging; these were used for metallographic determination and for determining the mechanical properties of the forging. Typical results obtained for steel 45 forgings are reproduced in Fig. 1, where the UTS (σ<sub>b</sub>, kg/mm<sup>2</sup>), yield point (σ<sub>s</sub>, kg/mm<sup>2</sup>) impact strength (a<sub>k</sub>, kgm/cm<sup>2</sup>), reduction in arma (Ψ, %) and elongation (6, %) are plotted against the distance (R, mm) from Card 2/5

S/129/63/000/003/006/009 E193/E383

Combined forging ....

the forging surface; curves 1-3 relate to forgings quenched immediately after forging, curves 4 to forgings quenched after 4 h at 850 °C and curves 5 to material quenched after a second reheating (tempering at 640-660 °C); diagrams a and 5 were constructed for steps 300 and 500 mm in diameter, respectively. Conclusions: 1) in the case of steel 45 forgings up to 500 mm in diameter, quenching immediately after hot forging does not give rise to flaking, irrespective of which part of the ingot is used for producing the forging. The same applies to steel 40KhN forgings of up to 300 mm in diameter. Flaking can, however, occur in steel 40KhN forgings of 500 mm in diameter, made from the top part of the ingot and quenched immediately after forging. 2) The mechanical properties of steel 45 forgings of up to 300 mm in diameter, quenched immediately after hot forging and given a high-temperature tempering, meet the requirements imposed by service conditions. The results of the present investigation provide grounds for 3) recommending that quenching after forging be used as the final heat treatment for medium-carbon steel forgings of up to 300 mm in diameter. In the case of steels 40KhN, 40X (40Kh), 34X M (34KhM), 50F (50G), 60F (60G), 40×HM (40KhNM) et al quenching immediately Card 3/5---

S/129/63/000/003/006/009 E193/E383

Combined forging ....

after hot forging should be applied as a preliminary heat treatment instead of prolonged annealing which is normally used after forging to prevent flaking. 4) Field trials conducted at the Novo-Kramatorsk Machine-building Works on forgings of up to 400 mm in diameter yielded satisfactory results. There are 3 figures.

ASSOCIATIONS:

TsNIITMASh

Novo-Kramatorskiy zavod (Novo-Kramatorsk Works)

Card 4/5

MANUFICUA, YE. F.

DEM/Biology
Sep/Cet 48

Marine Biology
Daphnia

"Study of Variants of Cladocera: 1, Variants of Daphnia in Lake Balkhash," Ye. F. Manuylova, Zool Inst., Acad Sci USSR, 12 pp

"Iz Ak Nauk SSSR, Ser Biol" No 5

Describes Daphnia balahashensis sp. nov. Presents series of measurements of species obtained from different parts of lake, Ascribes variations to changes in water temperature and mineral content. Submitted 15 Jun 47.

MANUYLOVA, Ye.F.

Results of the first year's operations in increasing the productivity of waters in Novgorod Province. Trudy probl. i tem.sov. no.1:56-60 (MLRA 9:7)

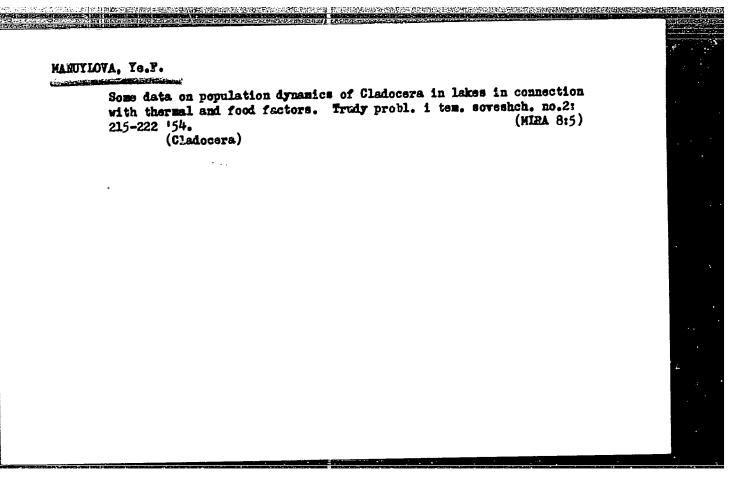
(Novgorod Province--Fresh-water biology)

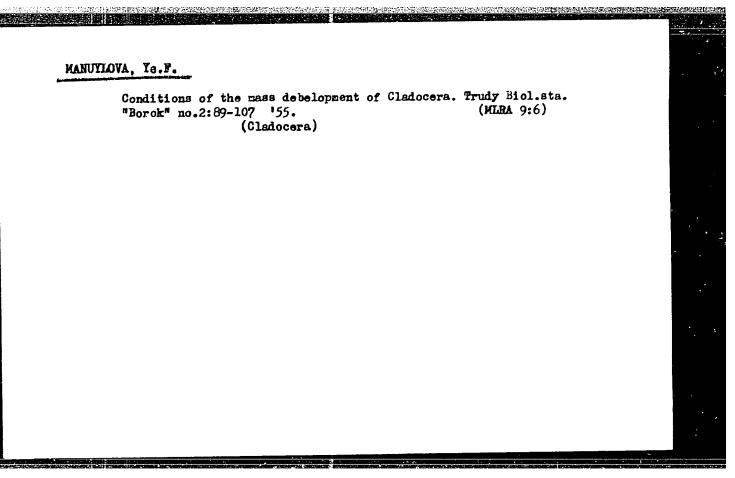
HANUYLOVA, Te.F.; PAVLOVSKIY, Ye.H., akademik,

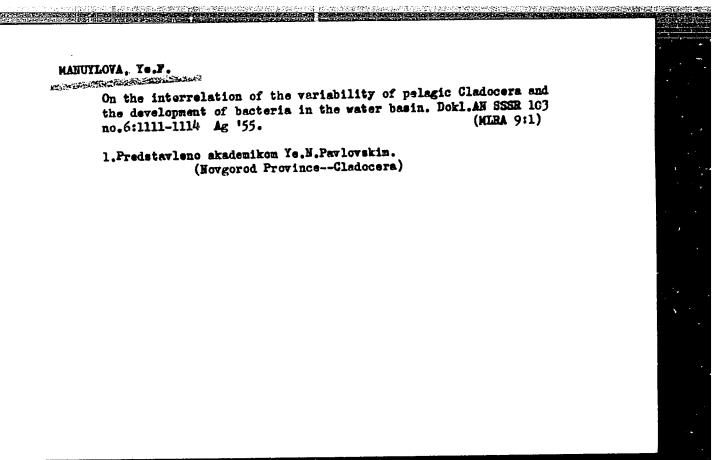
Connection between the development of Cladocera and the food factor.

Dokl. AH SSSR 90 no.6:1155-1158 Je '53. (MLRA 6:6)

1. Novgorodskoe otdelenie Vsesoyuznogo nauchno-issledovatel'skogo instituta ozernogo i rechnogo rybnogo khozyaystva. 2. Akademiya nauk SSSR (for Pavlovskiy). (Cladocera)







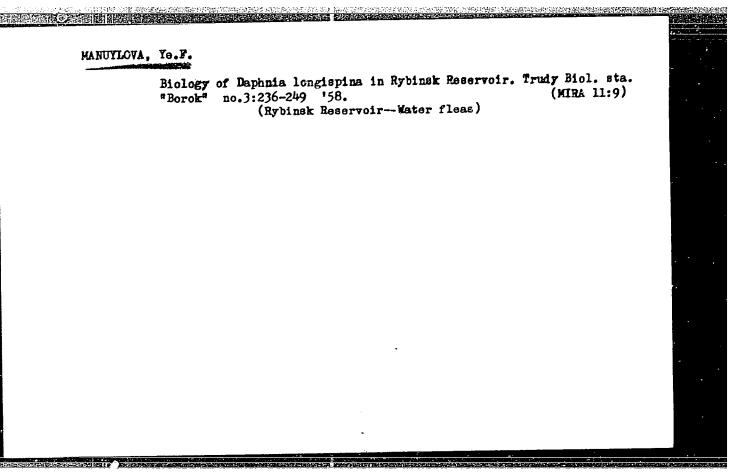
MANUYLOVA, To.F.

Zooplankton variation in lakes and artificial water reservoirs.

Dokl. AN SSSE 117 no.2:325-328 N '57. (MIRA 11:3)

1. Nauchno-issledovatel skaya biologicheskaya stantsiya "Borok" in. N.A. Morozova Akademii nauk SSSR. Predstavleno akademikom Ye.N. Pavlovskim.

(Plankton)



AUTHOR:

Kanuylova -

807 130- 4-8-55 F

TITLE:

On the Role of the Numero ity of Bacteria in the try lopment of the Claicera Under Retural Tenditions (Frooros. 6 znachenii chislennosti bakter, y v razvitii vetviet basyah

rachkov v yentestvenných uslovlyakh)

PERIODICAL:

Doklady Akademii nauk 1958, 1958, Vol. 120, Nr. 5, pp. 1990\_1 60

(USSR)

ABSTRACT:

The data available at present on the application and the cutrient value of bacteria in the nutrition of Cladosera (Ref 6) and a number of observations carried out in waters (Refs 1-4) convincingly indicate the importance of these microorganisms as food for the mentioned family of Crustacea. Furthermore it should be investigated how far the natural concentrations of bacteria are able to satisfy the demand of the filtering agents. Since Cladocera do not show a special capacity of selecting individual groups of bacteria (Ref 8) it is possible that the amount and the biomass of the Cladocera in waters is determined by the total content of bacteria in the water. Various species of Cladocera from the reservoir sybinsk (Rybinskoye vodokhranilishche) were kept in natural mater

Card 1/4

SOV /20-120-5-55/61

On the Role of the Numerosity of Bacteria in the Development of the Claffer cera Under Natural Conditions

without additional food. Algre and detritus were removed by filtration so that Cladocera were mainly fed with benter a. In this experiment the development of bacteria in the waters and the state of Cladocera showed two stages: a) the first comprised the whole month of June; the number of bacteria in the Shumorovka river was relatively small (under 100 000 per 1 cm<sup>2</sup>). The development of one generation of disdocera took more than 24 hours. In the aquarium most of the Madecera perished after ? - 3 days. The second growth emiglion perished without having skinned. Only Peracantha truncata and Scapholeberis mucronata developed and attained maturally after 7 - 8 days. b) At the beginning of August the reprodes tion of bacteria in the waters increased. About the middle of August 3 and 4 generations developed within 24 hours. The total number of bacteria amounted to 434 000 - 1 97 0000 rec 1 em? water. In this period the duration of life of maranal Cladocera in the aquarium attained that of the Cladocera living in the ner. The rusing generation developed normal v. On figure 1 the fluctuations of the biomass of the request. ton, the number of bacteria and the survival of Cladagera

Card 2/4

30V/20-120-5-55/6:

On the Role of the Numerosity of Bacteria in the Development of the Cladocera Under Natural Conditions

under normal conditions and the aquarium are illustrated. Further experiments aimed at determining the more active filtrates among the Cladocera. Sida crystallina proved to be such an active filtering agent. Daphnia cucullata and Bosmina consumed the smallest number of bacteria. The data on the development of the mentioned species in the waters correspond to these results. Due to the fluctuations of the concentration of bacteria in the waters the complex of Cladocera is continuously regrouped as to their total number and to their number of species. There are 1 figure, 1 table, and 8 references, 8 of which are Soviet.

ASSOCIATION: Institut biologii vodokhranilishch Akademii nauk SSSR

(Institute of Biology of Reservoirs, AS USSR)

PRESENTED: March 3, 1958, by Ye. N. Pavlovskiy, Member, Academy of

Sciences, USSR

Card 3/4

SOV/20-120-5-55/67

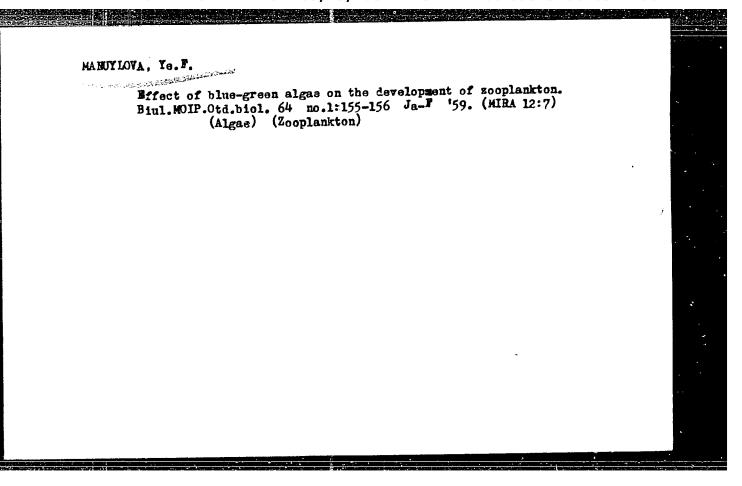
On the Role of the Numerosity of Bacteria in the Development of the Cladocora Under Natural Conditions

SUBMITTED:

February 27, 1958

1. Crustacea-Nutrition 2. Bacteria-Abundance 3. Crustacea -- Growth 4. Bacteria--Physiological effects

Card 4/4



## MANUYLOVA, Ye.F.

Disappearance of plankton as a factor in the increase of the bacterial population in bodies of water. Nauch. dokl. vys. shkoly; biol. nauki no.2:19-22 '61. (MIRA 14:5)

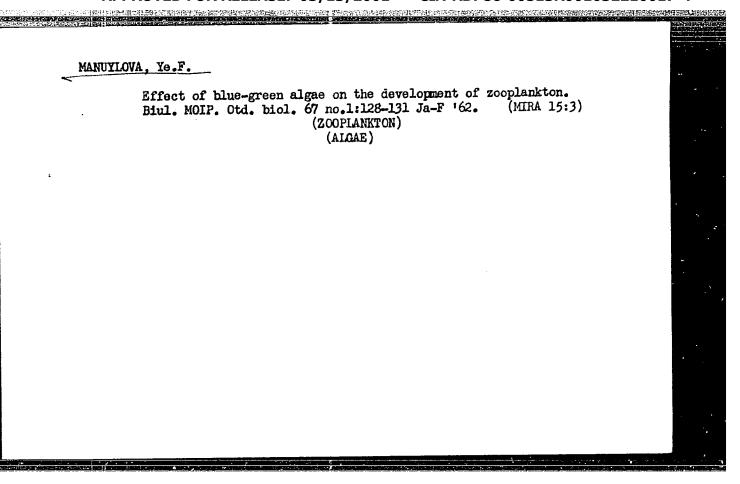
1. Rekomendovana kafedroy obshchey biologii Saratovskogo meditsinskogo instituta.
(PLANKTON) (BACTERIA)

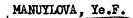
## MANUYLOVA, Ye.F.

Reproduction of water fleas in relation to the concentration of bacteria. Nauch. dokl. vys. shkoly; biol. nauki no.2:32-35 fe2. (MIRA 15:5)

1. Rekomendovana kafedroy obshchey biologii Saratovskogo meditsinskogo instituta.

(WATER FLEAS) (WATER-MICROBIOLOGY)





Cyclomorphosis of Cladocera as a specific adaptive character.

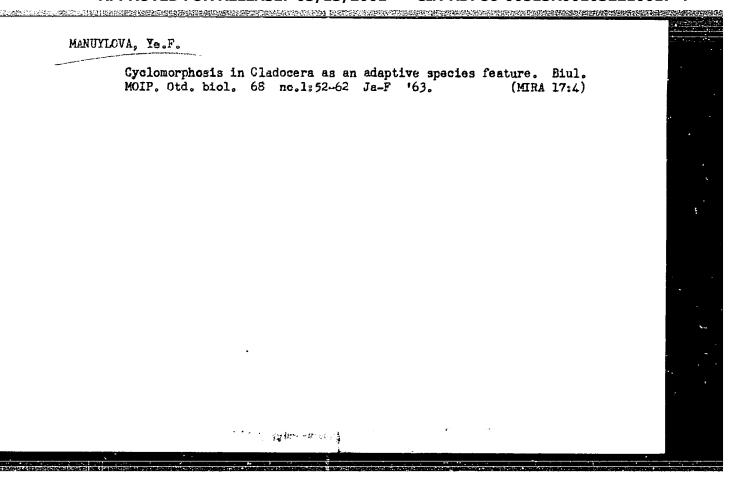
Biul. MOIP. Otd. biol. 67 no.1:153 Ja-F '62. (MIRA 15:3)

(CLADOCERA)

MANUILOVA, Ye.F.

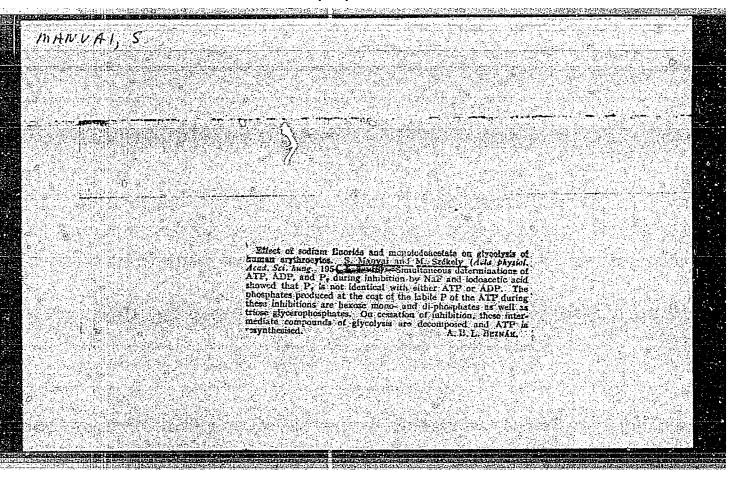
Dynamics of the abundance of water fleas. Vop. ekol. 5:128 '62.
(MIRA 16:6)

1. Meditsinskiy institut, Saratov.
(Water fleas)



MANUYLOVA, Yelizaveta Fedorovna; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; STRELKOV, A.A., red. toma; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; SHTAKEL BERG, A.A., red.

[Cladocera of the U.S.S.R.] Vetvistousye rachki (Cladocera) fauny SSSR. Moskva, Nauka, 1964. 326p. (Opredeliteli po faune SSSR, no.88). (MIRA 17:12)



ZARDIZE, G.M.; KAZAKHASHVILI, T.G.; KIKNADZE, I.I.; MANVELIDZE, R.M.

Structural and petrological features of ancient crystalline rocks in the Northern Caucasus. Sov.geol. 5 no.2:29-36 F '62.(MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova i Gruzinskiy politekhnicheskiy institut imeni V.I.Lenina.

(Caucasus, Northern—Rocks, Crystalline and metamorphic)

ZARIDZE, G.M.; KAZAKHASHVILI, T.G.; MANVELIDZE, R.M.

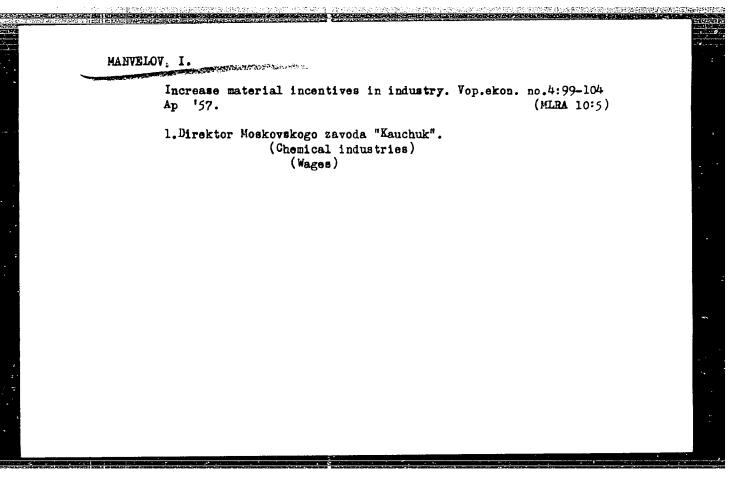
Clay schists and sandstones in the upper Adylsu and Adyrsu Rivers (Baksan Basin) of the northern Caucasus. Izv.vys.ucheb.zav.; geol.irazv 5 no.6:28-31 Je \*62. (MIRA 15:7)

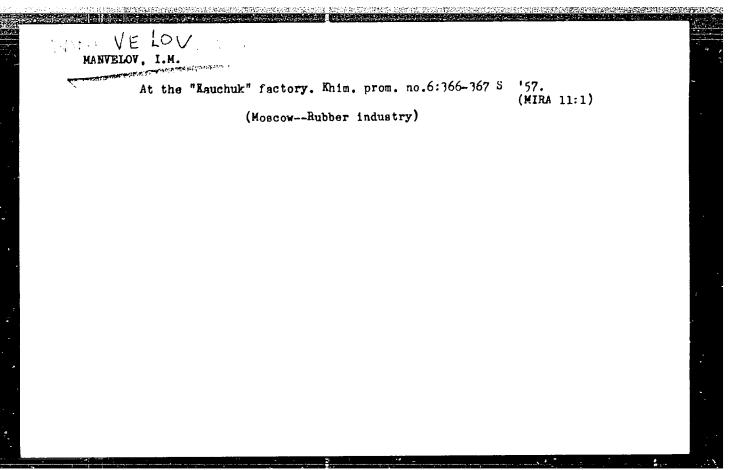
 Gruzinskiy politekhnicheskiy institut imeni V.I.Lenina. (Baksan Valley—Clay) (Baksan Valley—Sandstone)

Development and introduction of efficiency suggestions at the "Kauchuk" plant, Izobr. v SSSR, 1 no.2:37-38 Ag '56.

1. Direktor zaveda "Kauchuk".

(Rubber industry)





MANVELOV, Ivan Mirzoyevich; GUROV, S., red.; YEGOROVA, I., tekhn.red.

[Word and deed; or how the efficiency group in the "Kauchuk" factory doubled production] Slovo i delo; o tom, kak kollektiv zavoda "Kauchuk" udvoil vypusk produktsii. Moskovskii rabochii, 1958. 93 p. (MIRA 12:4)

MANUELOV, L 1

PHASE I BOOK EXPLOITATION

SOV/5973

Rayev-Bogoslovskiy, Boris Sergeyevich, Georgiy Ivanovich Glushkov, Andrey Stepanovich Tkachenko, Aleksandr Vasil'yevich Mikhaylov, Leon Ivanovich Manvelov, Nikolay Ivanovich Volokhov, Ivan Nikolayevich Tolmachev, and Fedor Iosifovich Ruban

Zhestkiye pokrytiya aerodromov (Hard Surface Covers of Airfields) Moscow, Avtotransizdat, 1961. 321 p. 2000 copies printed.

Ed.: B. S. Deberdeyev; Tech. Ed.: Ye. N. Galaktionova.

PURPOSE: This book is intended for technical personnel and may prove useful to students at technical schools.

COVERAGE: The book discusses the properties, characteristic features, and construction of runways, taxiways, stands for airplanes, and platforms for passengers to be used in the various climatic and geological regions of the USSR. The following are reviewed: specifications of materials, modern airfield-surface covers (one- and two-layer concrete, ferroconcrete, prestressed, monolithic, and

Card 1/#

ZAYTSEVA, L.P.; POROKHOVA, T.G.; MANVELOVA, K.V.

Method of color microscopy in the ultraviolet for investigating the structure of iron-chromium alloys. Zav.lab. 28 no.7:812-814
162 (MIRA 15:6)

 leningradskiy politekhnicheskiy institut. (Iron-chromium alloys-Metallography)

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L 23830-55 ENT(m)/EPF(n)-2/EWP(t)/EWP(b) Pu-4 IJP(c) JD/JG

ACCESSION NR: AT4045955 S/2563/

S/2563/64/000/234/0018/0024

AUTHOR: Zaytseva, L. P.; Porokhova, T. G.; Manyelova, K. V.

TITLE: Investigation of the structure of iron-tungsten-carbon and iron-molybdenum-carbon alloys by method of color microscopy with ultraviolet rays

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy\*, no. 234, 1964. Metal-lovedeniye (Metallography), 18-24

TOPIC TAGS: iron, tungsten, carbon, molybdenum, ultraviolet radiation, chromium, titanium, niobium, carbide, caustic soda solution, potassium manganate solution, 27 27 27

ABSTRACT: In preceding experiments the authors developed a method for the determination of the structure of alloys according to bright characteristic colors which are revealed under the effect of ultraviolet radiation. Furthermore the relevant colors were determined for carbide and the intermetallic phases of Cr, Ti and Nb making it possible to distinguish these phases in a complex alloy. The phases in Fe-W-C and Fe-Mo-C alloys were identified after etching with an

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ACCESSION NR: AT4045955

aqueous solution of caustic soda and an alkaline solution of potassium manganate, both solutions giving good results. Under the microscope using ultraviolet light, the W and Mo phases were clearly visible and readily distinguished from ferrite, intermetallic and carbide phases. After etching an Fe-W-C alloy with an aqueous solution of caustic soda, the intermetallic phase shows up light brown under the microscope, carbide is brown and ferrite light. Molybdenum carbide was brown and its intermetallic and ferrite phase remain light. The intermetallic phase in W showed up red, tungsten carbide black and ferrite light green. Orig. art. has: 3 figures and 4 tables

ASSOCIATION: Leningredskiy politekhnicheskiy institut (Leningrad Polytechnic

Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NR REF SOV: 002

OTHER: 000

Card 2/2

# Reorganization in the polyclinic department of the Ostroumov No.33 City Clinical Hospital. Zdrav. Ros. Feder. 4 no.5:16-13 My '60.

1. Zamestitel' glavnogo vracha Gorodskoy klinicheskoy bol'nitsy No.33 imeni Ostroumova.

(MOSCOW-HOSPITALS-ADMINISTRATION)

(MIRA 13:11)

### MANVELOVA, R.S.

Efficient method for treating the unbilical cord of newborn infants. Zdray. Tadzh. 6 no.2:33-34 Mr-Ap '50. (MLR 12:9)

1. Zavedurushchiy akushersko-ginekologicheskim otdeleniyem Moskovskoy rayonnoy bol'nitsy.
(UMBILICUS)

MANVELYAN, A. M., Cand of Vet Sci -- (diss) "Treatment of certain gyner cological diseases of cattle with carbide residues." Yerevan, 1957, 16 pp (Yerevan Zooveterinary Institute), 100 copies (KL, 32-57, 95)

MARTIROSYAN, G.M.; MANVELYAN, A.P.; TERLEMEZYAN, G.Ye.; MELKUMYAN, G.G.; AGAMIRYAN, G.W.; TARDZHIMANOV, R.O.; GUKASYAN, V.M.; POGOSYAN, N.P.; MARUKHYAN, A.O.; MARUNOV, P.M., red.; SAROYAN, P., tekhn.red.; MATINYAN, A.A., tekhn.red.

[Forty years of Soviet Armenia: a statistical manual] Sovetskaia Armeniia za 40 let; statisticheskii sbornik. Erevan, Armianskoe gos.izd-vo, 1960. 209 p. (MIRA 14:4)

1. Armenian S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik TSentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Armyanskoy SSR (for Martirosyan). 3. Zamestitel' nachal'nika TSentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Armyanskoy SSR (for Manvelyan). 4. TSentral'noye statisticheskoye upravleniya pri Sovete Ministrov Armyanskoy SSR (for Tarlemezyan, Melkumyan, Agemiryan, Tardzhimanov, Gukasyan, Pogosyan, Marukhyan). 5. Nachal'nik otdela statistiki svodnykh rabot TSentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Armyanskoy SSR (for Marunov).

(Armenia -- Statistics)

# MANVELYAN, A.T. Nork practices of the "Kransnyi Vostok" Factory, an enterprise of communist labor. Tekst. prom. 25 no.8:48-50 Ag "66. (MIRA 18:9) 1. Direktor trikotazhno-perchatochnoy fabriki "Krasnyy Vostok".

SIMONOV, M.Z., doktor tekhn.nauk; SARKISYAN, R.R., kand.tekhn.nauk; MANVELYAN, D.S., inzh.; MKHIKYAN, R.M., inzh.; GYURDZHYAN, A.R., inzh.; MALADZHYAN, P.A.

Manufacturing precast thin-walled articles by guniting. Mekh. stroi. 18 no.5:16-18 My '61. (MIRA 14:7)

1. Armyanskiy institut stroitel'nykh materialov. (Reinforced concrete construction) (Gunite)

MANVELYAN, E.G.

MANUFLYAN F.G.: SULTANOV, D.K., redaktor; UDALYY, A.M., tekhnicheskiy

[Safety measures in assembling and use of a dual-pitman reduction gear pumping unit] Tekhnika bezopasnosti pri montazhe i eksploatatsii stankov-kachalok normal'nogo riada. Baku, Gos.nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, Azerbaidzhanskoe otdelenie, 1951. 29 p.

(MIRA 8:4)

(Petroleum industry-Safety measures) (Oil well pumps)

MANVELYAN, Eleonora Grigor'yevna; SULTANOV, D.K., redaktor; AL'TMAN, T.B., tekhnicheskiy redaktor.

[Safety engineering in deep-well pumping] Tekhnika bezopasnosti pri glubinnonasosnoi ekspluatatsii skvazhin. Baku. Azerbaidzhanskoe gos. izd-vo neftianoi i nauchno-tekhn. lit-ry, 1955.146 p. (MLRA 9:4) (Oil well drilling-Safety measures)

MANUELYAN, E.G., inzhener; SKORNYAKOV, M.V., inshener; ESTRIN, R.Ya., inzhener.

Deuble-seat supports used in repairing. Besep, truda v prem, 1 ne.2:
(MIRA 10:4)

(Oil fields--Equipment and supply)

25(5)

SOV/92-58-9-31/36

AUTHOR:

Manvelyan, E.G.

TITLE:

Institute Collaborates with Production Workers (Institut

sotrudnichayet s proizvodstvom)

PERIODICAL: Neftyanik, 1958, Nr 9, p 32 (USSR)

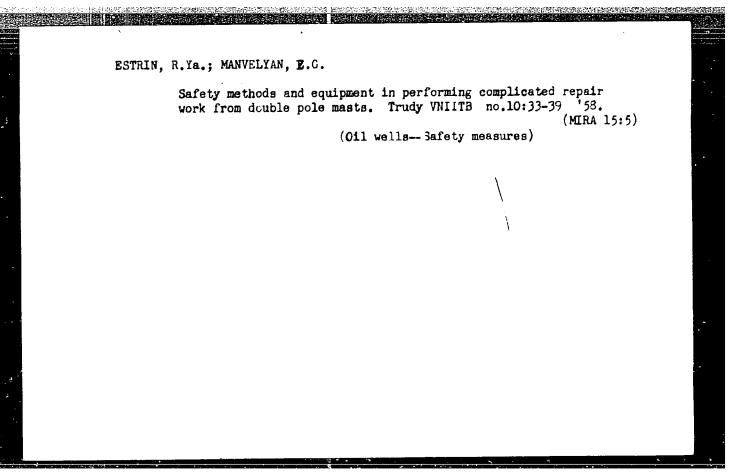
The author states that members of the VNIITB (All-ABSTRACT: Union Scientific Research Institute of Safety Engineering) came to the conclusion that it is necessary to promote the protection and safety of the personnel working in enterprises of the Buzovnyneff! Petroleum Production Administration. On the other hand the personnel of the Buzovnyneft' Administration offered their collaboration to facilitate the task of the above-mentioned institute. As a result, considerable efforts were made to improve conditions under which oil wells are overhauled. A complex equipment comprising a tractor with a crane was developed and introduced. New methods of overhauling oil wells were tested and accepted by the VNIITB, and adopted by the Buzovnyneft' Administration. The institute developed new wrenches to unfasten rods when Card 1/1

Institute Collaborates (Cont.)

sov/92-58-9-31/36

the plunger of a deep pump is stalled. Moreover, educational programs for training the personnel of the above-mentioned administration were also elaborated by the members of the institute who organize conferences and lectures to promote the safety of workers on the job. As a result of these measures the number of accidents in oilfields exploited by the Buzovnyneft' Administration decreased.

Card 2/2



MANVELYAN, E.G., inzh.; ESTRIN, R.Ya., inzh.

Submarine geophysical prospecting. Bezop.truda v prom. 3 no.1:14-15 Ja 159. (NIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti.

(Prospecting-Geophysical methods)
(Petroleum in submerged lands)

ESTRIN, R. Fa., inzh.; MANVELYAN, E.G. inzh.; ARZUMANOV, A.A., inzh.

Safety measures in completing oil wells. Bezop.truda v prom 4 no.6:14-17 Je 60. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti. (0il well drilling-Safety measures)

MANVELYAN, E.G., inzh.; BAYTUGANTI, Ye.G., inzh.

Tube elevators for underground repairing of wells. Bezop.truda
▼ prom. 4 no.10:24-25 0 '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti, Baku. (Oil wells--Equipment and supplies)

ESTRIN, R.Ya.; ARZUMANOV, A.A.; MANVELYAN, E.G.

Safety measures in the testing of gas wells. Gas. prom.

5 no. 12:12-14 D '60.

(Gas wells—Safety measures)

(MIRA 14:1)

ESTRIN, R Yan; MORDKIN, V H; MANVELYAN, S G.; ARZUMONOV, A.A.

Safety problems in completing oil and gas wells. Trudy VALITE (MIGA 14:12)

(Oil fields --Safety measures)

MANVELYAN, E.G.; BAYTUGANTI, Ye.G.

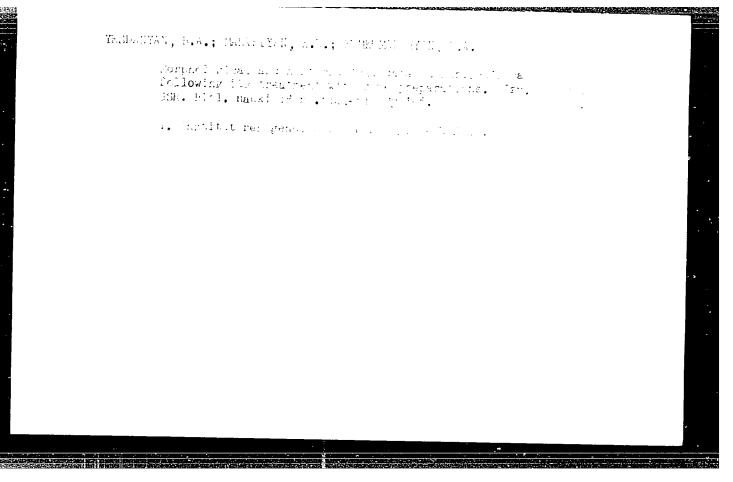
Choice of efficient and safe design of pipe elevators for underground oil well repairs. Trudy VNIITB no.13:21-29 '60. (M1RA 14:12) (Oil wells—Equipment and supplies)

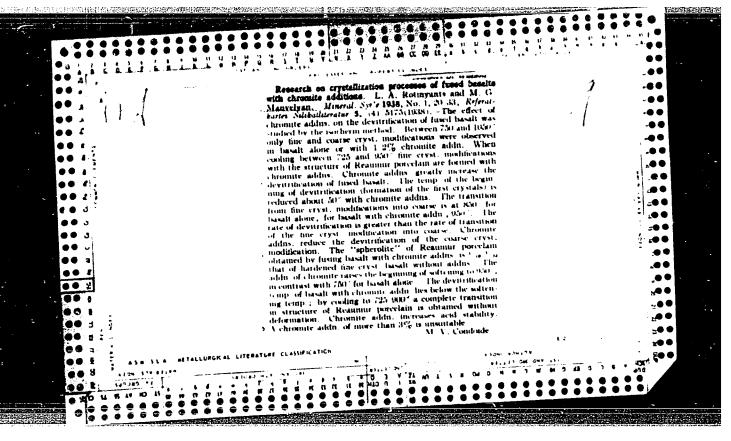
MANVELYAN. E.G., inzh.; BAYTUGANTI, G.G., inzh.

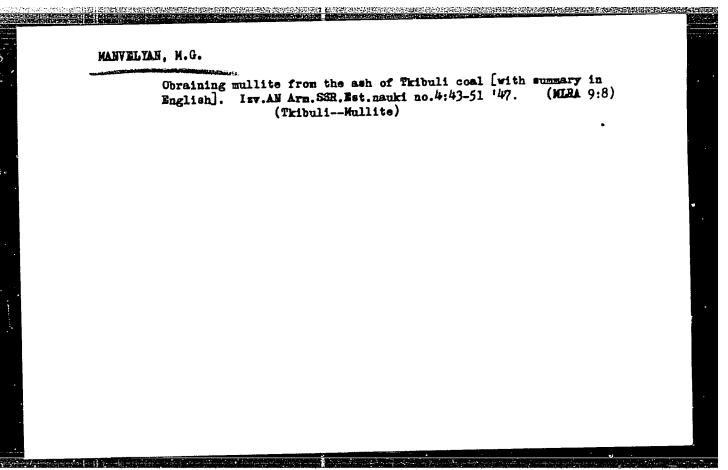
Fastening cables of an electric subsurface pumping unit. Bezop.truda v prom. 6 no.7:24 Jl '62. (MIRA 15:7)

MANVELYAN, Eleonora Grigor'yevna; SULTANOV, S.D., red.; KAYESHKOVA,

[Safety engineering in oil well production] Tekhnika bezopasnosti pri ekspluatatsii neftianykh skvazhin. Moskva, Gostoptekhizdat, 1963. 155 p. (MIRA 16:9) (Petroleum production--Safety measures)







MANYELYAN, M.G.: GALFAYAN, G.T.; KANKANYAN, A.G.

Study of refractory materials used for the inner lining of chlorination furnaces [with summary in English]. Ixv.AN Arm.SSR.Est.
nauki no.4:53-57 '47.

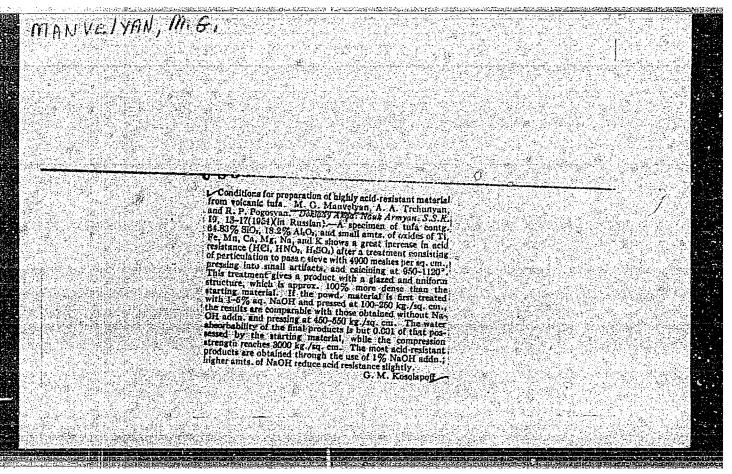
(Refractory materials)

(Refractory materials)

MANVELYAN, M. G.

Manvelyan, M. G. - "The question of aluminum oxide concentration of nephelinesyenite rock," Izvestiya (Akad. nauk Arm. SSR), Fix.matem., yestestv. i tekhn. nauki, 1948, No. 3, p. 208-12

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)



USSR/Chemical Technology - Chemical Products and

I-10

Their Applications - Silicates.

Glass. Ceramics. Binders.

: Ref Zhur - Khimiya, No 3, 1957, 9015 Abs Jour

: Manvelyan, M., Pogosyan, R., and Author

Ter-Karapetyan, S.

Inst

MANVELYAN

Penotuf Title

: Stroit. materily, izdeliya i konstruktsii, Orig Pub

1955, No 5, 34

Abstract

A new construction material, Penotuf / foamtuf /, has been prepared by heating Aniysktuf to 1200 and holding it at that temperature for two hours; the raw material is passed through a sieve with 2500 openings per cm. The addition of 20% Aniysk clay increases the expansion temperature range and

Card 1/2

USSF/Chemical Technology - Chemical Products and Their Applications - Silicates. Glass. Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9015

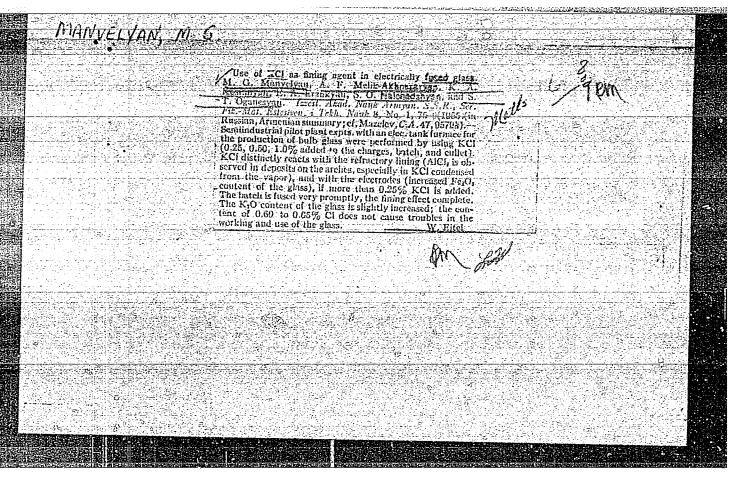
thus gives a more uniform distribution of the pores. At the same time the resistance of the product to attack by mineral acids is improved. A chemical analysis of the composition of the raw material is given together with a comparative evaluation of Penotuf, foam glass, and pumice. The bulk density of Penotuf is 0.55-0.85 gms/cm, the crushing strength is 25-40 kg/cm, and the absorption is 4-5%.

Card 2/2

MANVELYAN, M. G.

"Fusion of glass with uncooled electrodes, "M. G. Manvelyan, A. F. Melik-Akhnazaryan, K. A. Kostanyan, E. A. Erznkyan, S. O. Nalchadzhyan, and S. T. Oganesyan, Izvest. Akad. Nauk Armyan. SSR, Ser. Fiz.-Mat. Estestven. 1 Tekh. Nauk, 8, No. 1, 65-74 (1955) (in Russian, Armenian summary).

for abstract see card on MELIK-AKHNAZARYAN, A. F.

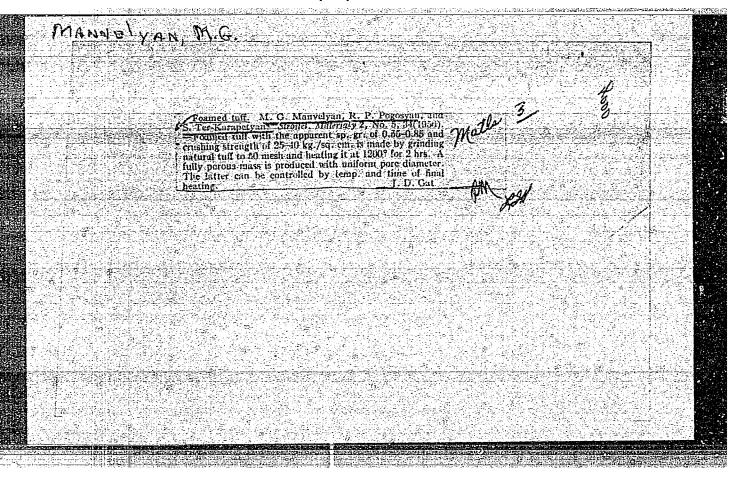


MANYELYAN, M.G.; KRHOYAN, T.V.; YEGANYAN, A.G.; KOCHARYAN, A.M.

Electric conductivity of concentrated sedium and petassium hydroxide solutions, their carbonates, and NaOH--KOH mixtures at 25°C.

Izv. AN Arm. SSR. Ser. FMET nauk 8 no.4:73-79 J1-Ag 155. (MLRA 9:2)

1. Khimicheskiy institut AN Armyanskey SSR. (Sedium hydrexide--Electric properties) (Potassium hydrexide--Electric properties)



MANIFLYAN, M. G

I-9 USSR/Chemical Technology. Chemical Products and Their

Application - Silicates. Glass. Ceramics. Binders.

: Referat Zhur - Khimiya, No 4, 1957, 12530 Abs Jour

: Manvelyan M.G., Melik-Akhmazaryan A.F., Kostanyan K.A., Author

Nalchadzhyan S.O.

: Use of Graphite Electrodes in Electric Glass-Melting Title

Furnaces

: Steklo i keranika, 1956, No 7, 1-7 Orig Pub

: Description of the history of utilization, in USSR, of Abstract

steel, wall-adjoining electrodes in glass-melting furnaces, and the testing of graphite electrodes in a semi-production scale furnace. Presented are the theoretical premises of the behavior of graphite electrodes in the body of glass, and on the basis of the results of their tests under different loads and glass-melting temperatures the conclusion is reached that the domestically manufactured graphite electrodes are entirely

suitable for this purpose.

- 72 -Card 1/1

MANVELYAN, M G

Poland/Chemical Technology -- Chemical Products and Their Application. Silicates.

Glass. Ceramics. Binders, I-9

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Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1589

Author: Manwielan, M. G., Pogosjan, R. P., and Ter-Karapetjan, S. A.

Institution: None

Title: Glazed Articles from Tufa

Original

Periodical: Szklo i ceram., 1956, Vol 7, No 7-8, 218; Polish

Abstract: Translation. See Referat Zhur - Khimiya, 1956, 40308.

Card 1/1

MANVELYAN, M.G.

USSR/Physical Chemistry ~ Solutions.

Theory of Acids and Bases

B-11

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 3913

Author

: Manvelyan M.G., Krmoyan T.V., Yeganyan A.G., Kocharyan

A.M.

Inst

: Academy of Sciences Armenian SSR

Title

: Effect of Temperature on Conductance of Concentrated Solutions of Hydroxides and Carbonates of Sodium and

Potassium.

Orig Pub

: Izv. AN ARmSSR, ser. fiz.-matem., yestestv. i tekhn. n.,

1956, 9, No 2, 3-12.

Abstract

: The specific electric conductivity of concentrated solutions of hydroxides and carbonates of sodium and potassium were determined within the temperature interval of 25-85°. At high temperatures rate of movement of Na + and K ions in concentrated solutions of NaOH and KOH is

about the same, which the authors explain on the basis

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MIHNVELYHN, ME

USSR Chemical Technology. Chemical Products

I-12

and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31493

Author Manvelyan M. G., Abramyan A.V.

: Academy of Sciences Armenian SSR Inst

Title : Investigation of the Process of Calcination of

Fused and Vitreous Basalt from the Standpoint

of Oxidation-Reduction Processes

Izv. AN ArmSSR. Fiz. matem. yestestv. i tekhn. Orig Pub:

n., 1956, 9, No 6, 3-20

Abstract: A study of the process of calcination of pulveru-

lent, natural and vitreous basalts, obtained

following fusion and rapid cooling, in different

Card 1/4

USSR /Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31493

gaseous media. Heating of the samples was carried out in a tubular electric furnace at a rate of 10-12° per minute, and with holding for 1 hour. The samples were pressed from a powder (screen 4900 apertures per cm²), mixed with 15-20% water. The study was conducted at temperatures of 700-1200° in the following media: hydrogen, nitrogen, air, oxygen and carbon dioxide. After heating the samples were investigated visually and microscopically. It was found that samples of basalt in a reducing medium, or samples from reducing fusions, undergo recrystallization more rapidly and better than in an oxidizing medium. Samples recrystallized in a reducing medium acquire a denser and more

Card 2/4

USSR /Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31493

finely-crystalline structure and have a black coloration. Increased content of ferrous iron in the pulverulent basalt glass-paste, or a low degree of oxidation of the basalts (Fe, O<sub>5</sub>: FeO less than O.8-O.7), have a beneficial effect on the course of the recrystallization. Forms of the crystals that are formed, rate of crystallization and composition of the resulting compounds depend upon the medium in which the process of fusion and recrystallization of basalt was carried out. In the process of calcining of natural pulverulent basalt, or on recrystallization of pulverulent basaltic glass-paste, certain chemical changes take place, as well as a change in color:

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USSR /Chemical Technology. Chemical Products and Their Application

I-12

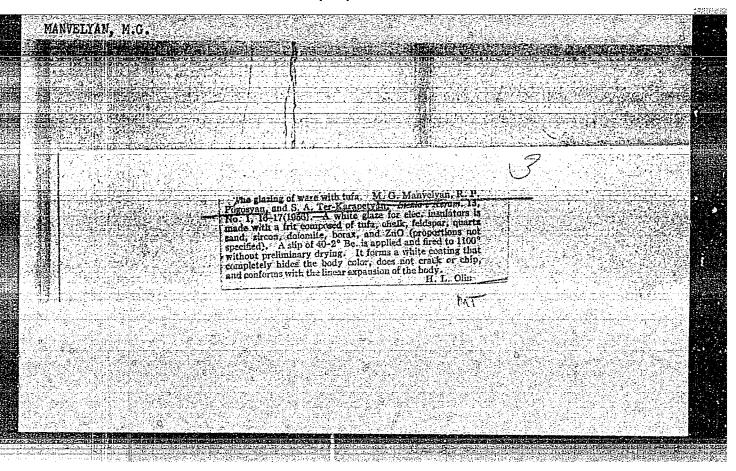
Silicates. Glass. Ceramics. Binders.

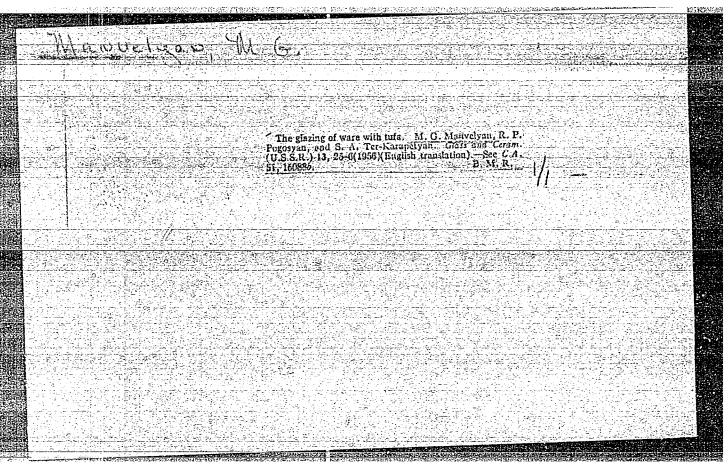
Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31493

in an atmosphere of hydrogen a black tinge develops, in an atmosphere of oxygen — a pink or red tinge, and in other atmospheres — a pale greyish-pink tinge. At the same temperature level there is noted the establishment of a definite state of equilibrium between ferric oxide and ferrous oxide. It was found that the processes of oxidation and reduction of the iron are reversible and depend on the medium, the temperature and duration of heating.

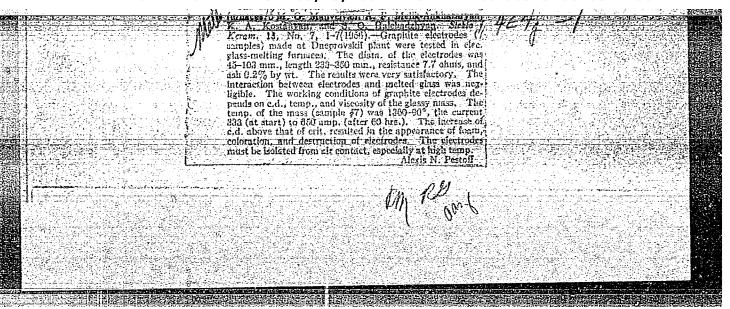
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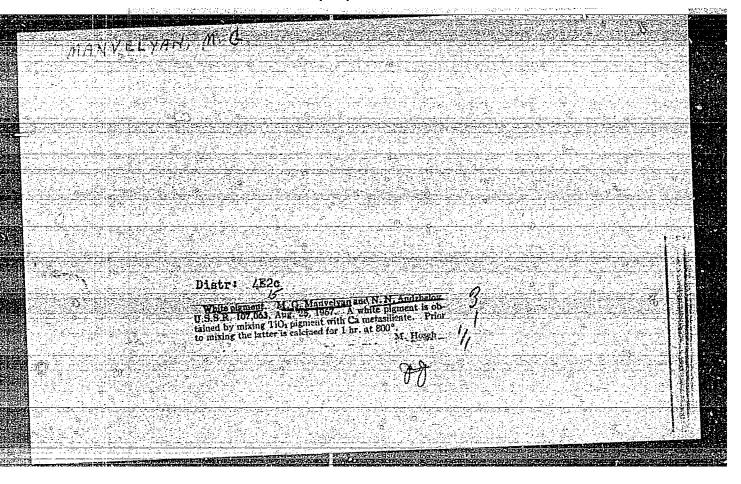
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	MANYELYAN, M.G.	
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	The use of graphite electrides in electric glass-radiing $AEA$ Michaess S.M. Co. Manyelyan, A. F. Melle-Arkhaenyan, $AEA$ AND E. A. Continuous and S. O. Halbaddhyan, $AEA$	
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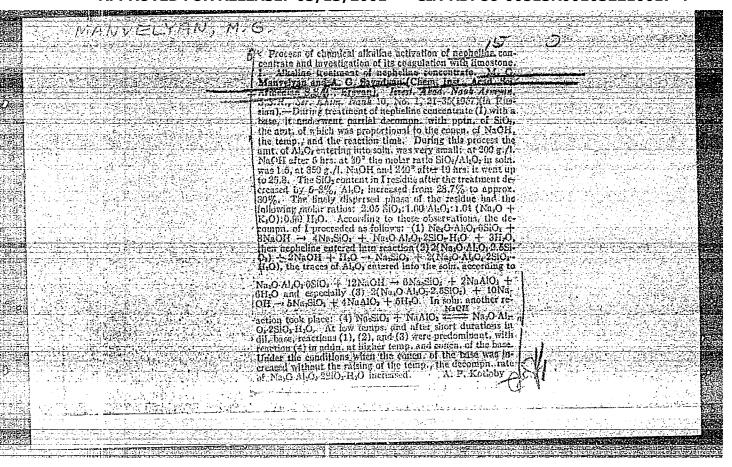


MANVELYAN, M. G.,

- "The Conductivity of Sodium Aluminate Solutions" by Kermoyan, M. G. Manveylan, and L. G. Shaginyan, <u>Izvestiya</u>, Armenian Academy of Sciences, X,5,305-313, 1957.
- "The Conductivity of Concentrated Solutions of Sodium and Potassium Hydroxides, Their Carbonates, and Mixtures of NaOH and KOH at 25' by Kermoyan, Manvelyan, A. G. Eganyan, and A. M. Kocharyan, <u>Izvestiya</u>, Armenian Academy of Sciences, VIII, 4, 73-78, 1955.
- "Effect of Temperature on Electric Conductivity of Concentrated Solutions of NaOH, KOH, Na2CO3, and K2CO3" by Kermoyan, Manvelyan, Eganyan and Kocharyan, Izvestiya, Armenian Academy of Sciences, IX, 2, 3-12, 1956.
- "Study of the Electric Conductivity of Solutions of Sodium Silicate" by Kermoyan, Manvelyan, and Eganyan, Izvestiya, Armenian Academy of Sciences, X, 4, 225-236, 1957.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032210017-4





Manyelyan, M.G.; Sayadyan, A.G.

Investigating the process of chemical (alkaline) activation of nepheline concentrate and studying its sintering with limestone. Report No.2: Studying the sintering of chemically activated nepheline concentrate with limestone. Izv. AN Arm. SSR Ser. khim. nauk 10 no.2:97-104 '57. (MIRA 10:12)

1. Khimicheskiy institut AN ArmSSR. (Nepheline) (Limestone) (Sintering)

MANUELYAN, M.G.; MELIK-AKHNAZARYAN, A.F.; KOSTANYAN, K.A.; NALCHADZHYAN, S.O.

MANUELYAN, M.G.; MELIK-AKHNAZARYAN, A.F.; KOSTANYAN, K.A.; NALCHADZHYAN, S.O.

Glass layers next to the electrodes in electric glass furnaces.

Glass layers next to the electrodes in electric glass furnaces.

(MIRA 10:10)

Izv.AN Arm.SSR. Ser.tekh.nauk 10 no.4:51-60 '57. (MIRA 10:10)

[Selectrodes]

(Glass furnaces)

(Electrodes)

MANVELYAH, M.G.; KEMOYAN, T.V.; YEGANYAN, A.G.

Miectric conductivity of sodium silicate solution. Izv. AN Arm.
Ser. khim. nauk 10 no.4:225-236 '57. (MIRA 10:12)

1. Khimicheskiy institut AN ArmSSR.
(Sodium eilicates-Electric properties)

